

GENERAL SITE NOTES

GENERAL SITE	
PLAN MARK	DESCRIPTION
	EXISTING STRUCTURE
	GUARD POST/ BOLLARD
	UTILITY POLE
	FIRE HYDRANT
	LIGHT POST
	UTILITY END CAP
	SHRUB
	DECIDUOUS TREE
	CONIFEROUS TREE
	SINGLE POLE SIGN
	DOUBLE POLE SIGN
	VALVE
	CHAINLINK FENCE
	MINOR CONTOUR
	MAJOR CONTOUR

GENERAL SITE	
PLAN MARK	DESCRIPTION
	DRAINAGE MANHOLE
	ELECTRICAL MANHOLE
	SANITARY MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	CURB INLET
	INTAKE - CIRCLE
	INTAKE - RECTANGLE
	HANDHOLE

ABBREVIATIONS

ACC 15KV
ABAN ABANDONED
DIA DIAMETER
DIP DUCTILE IRON PIPE
DW DOMESTIC WATER
FO FIBER OPTICS
FW FIRE WATER
IE INVERT ELEVATION
UNIVERSITY OF IOWA
TELECOMMUNICATION
SERVICES
LF LINEAR FEET
MH MANHOLE
OE OVERHEAD ELECTRIC
PCC PORTLAND CEMENT CONCRETE
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
REQD REQUIRED
RIGD RIGID STEEL
RESTRAINED JOINT
DUCTILE IRON PIPE
RIGHT-OF-WAY
SAN SANITARY
STM STEAM
STRM STORM SEWER
TELU TELECOMMUNICATIONS
TEMP TEMPORARY
UE UNDERGROUND ELECTRIC
WATW WATER MAIN

UTILITY LINES	
LINE TYPE	DESCRIPTION
	OVERHEAD ELEC.
	UNDERGROUND ELEC.
	GAS MAIN
	WATER MAIN
	SANITARY SEWER
	STORM SEWER
	UNDERGROUND TELE.
	FIBER OPTICS
	STEAM

UTILITY NOTE

THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC., AND NOT SHOWN ON THIS DRAWING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES. CALL IOWA ONE-CALL (1-800-292-6989) FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.

2-1

Veterans Administration

SHIVE-HATTERY
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Iowa | Illinois | Missouri

Drawing Title

EXISTING SITE PLAN

Approved: Division Chief

Approved: Service Director

Project Title

RENOVATE AND EXPAND
SPACE FOR PATIENT
SUPPORT AREAS

Building Number

2

Checked

ALW

Drawn

EJM

Location

IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

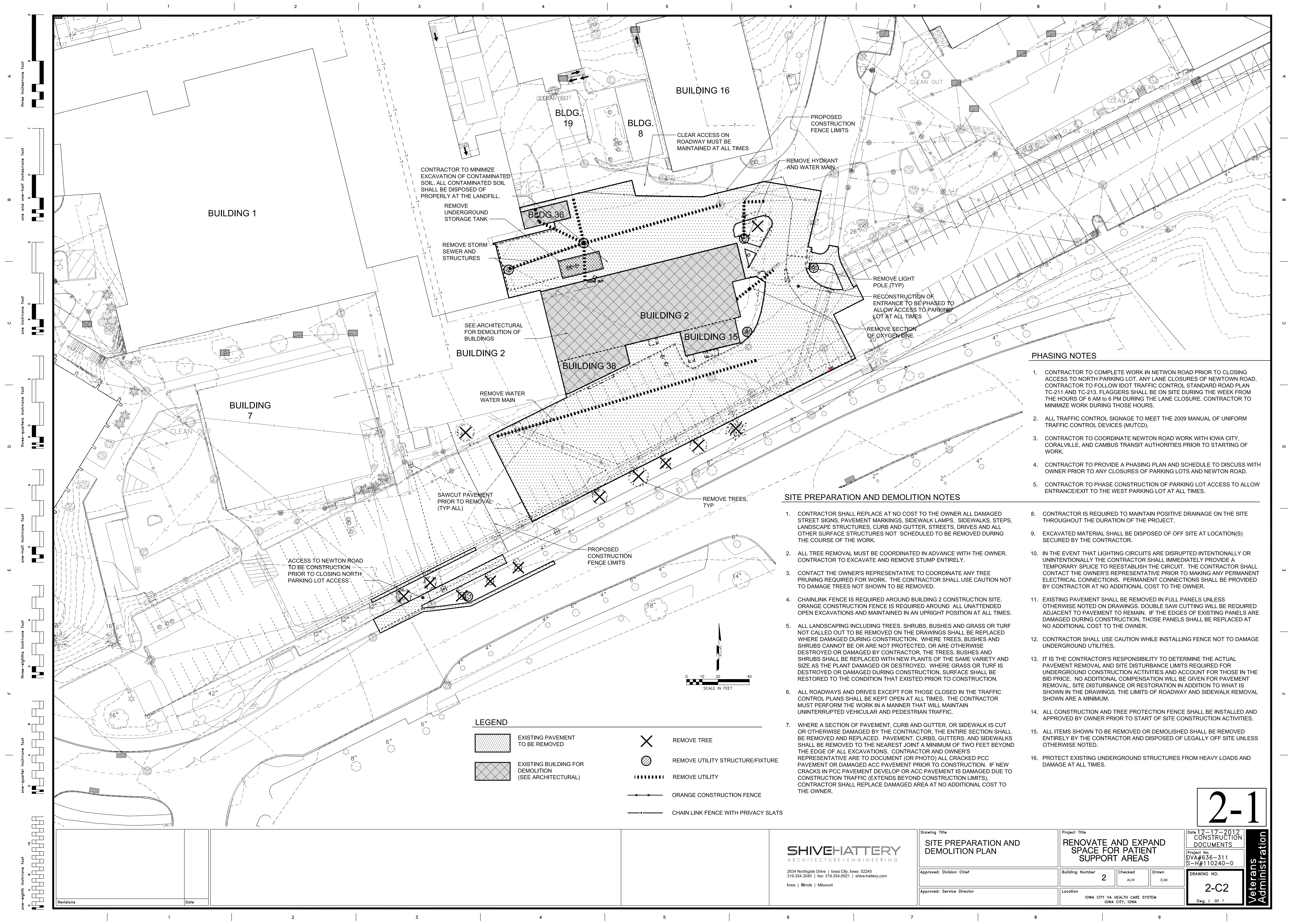
Date: 12-17-2012
CONSTRUCTION
DOCUMENTS

Project No.
DVA#636-311
S-H#110240-0

DRAWING NO.

2-C1

Dwg. 1 of 7



PHASING NOTES

- CONTRACTOR TO COMPLETE WORK IN NETWON ROAD PRIOR TO CLOSING ACCESS TO NORTH PARKING LOT. ANY LANE CLOSURES OF NEWTOWN ROAD, CONTRACTOR TO FOLLOW IDOT TRAFFIC CONTROL STANDARD ROAD PLAN TC-211 AND TC-213. FLAGGERS SHALL BE ON SITE DURING THE WEEK FROM THE HOURS OF 6 AM TO 6 PM DURING THE LANE CLOSURE. CONTRACTOR TO MINIMIZE WORK DURING THOSE HOURS.
- ALL TRAFFIC CONTROL SIGNAGE TO MEET THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTRACTOR TO COORDINATE NEWTON ROAD WORK WITH IOWA CITY, CORALVILLE, AND CAMBUS TRANSIT AUTHORITIES PRIOR TO STARTING OF WORK.
- CONTRACTOR TO PROVIDE A PHASING PLAN AND SCHEDULE TO DISCUSS WITH OWNER PRIOR TO ANY CLOSURES OF PARKING LOTS AND NEWTON ROAD.
- CONTRACTOR TO PHASE CONSTRUCTION OF PARKING LOT ACCESS TO ALLOW ENTRANCE/EXIT TO THE WEST PARKING LOT AT ALL TIMES.

SITE PREPARATION AND DEMOLITION NOTES

- CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER ALL DAMAGED STREET SIGNS, PAVEMENT MARKINGS, SIDEWALK LAMPS, SIDEWALKS, STEPS, LANDSCAPE STRUCTURES, CURB AND GUTTER, STREETS, DRIVES AND ALL OTHER SURFACE STRUCTURES NOT SCHEDULED TO BE REMOVED DURING THE COURSE OF THE WORK.
- ALL TREE REMOVAL MUST BE COORDINATED IN ADVANCE WITH THE OWNER. CONTRACTOR TO EXCAVATE AND REMOVE STUMP ENTIRELY.
- CONTACT THE OWNER'S REPRESENTATIVE TO COORDINATE ANY TREE PRUNING REQUIRED FOR WORK. THE CONTRACTOR SHALL USE CAUTION NOT TO DAMAGE TREES NOT SHOWN TO BE REMOVED.
- CHAINLINK FENCE IS REQUIRED AROUND BUILDING 2 CONSTRUCTION SITE. ORANGE CONSTRUCTION FENCE IS REQUIRED AROUND ALL UNATTENDED OPEN EXCAVATIONS AND MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES.
- ALL LANDSCAPING INCLUDING TREES, SHRUBS, BUSHES AND GRASS OR TURF NOT CALLED OUT TO BE REMOVED ON THE DRAWINGS SHALL BE REPLACED WHERE DAMAGED DURING CONSTRUCTION. WHERE TREES, BUSHES AND SHRUBS CANNOT BE OR ARE NOT PROTECTED, OR ARE OTHERWISE DESTROYED OR DAMAGED BY CONTRACTOR, THE TREES, BUSHES AND SHRUBS SHALL BE REPLACED WITH NEW PLANTS OF THE SAME VARIETY AND SIZE AS THE PLANT DAMAGED OR DESTROYED. WHERE GRASS OR TURF IS DESTROYED OR DAMAGED DURING CONSTRUCTION, SURFACE SHALL BE RESTORED TO THE CONDITION THAT EXISTED PRIOR TO CONSTRUCTION.
- ALL ROADWAYS AND DRIVES EXCEPT FOR THOSE CLOSED IN THE TRAFFIC CONTROL PLANS SHALL BE KEPT OPEN AT ALL TIMES. THE CONTRACTOR MUST PERFORM THE WORK IN A MANNER THAT WILL MAINTAIN UNINTERRUPTED VEHICULAR AND PEDESTRIAN TRAFFIC.
- WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT A MINIMUM OF TWO FEET BEYOND THE EDGE OF ALL EXCAVATIONS. CONTRACTOR AND OWNER'S REPRESENTATIVE ARE TO DOCUMENT (OR PHOTO) ALL CRACKED PCC PAVEMENT OR DAMAGED ACC PAVEMENT PRIOR TO CONSTRUCTION. IF NEW CRACKS IN PCC PAVEMENT DEVELOP OR ACC PAVEMENT IS DAMAGED DUE TO CONSTRUCTION TRAFFIC (EXTENDS BEYOND CONSTRUCTION LIMITS), CONTRACTOR SHALL REPLACE DAMAGED AREA AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS REQUIRED TO MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
- EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION(S) SECURED BY THE CONTRACTOR.
- IN THE EVENT THAT LIGHTING CIRCUITS ARE DISRUPTED INTENTIONALLY OR UNINTENTIONALLY THE CONTRACTOR SHALL IMMEDIATELY PROVIDE A TEMPORARY SPLICE TO REESTABLISH THE CIRCUIT. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE PRIOR TO MAKING ANY PERMANENT ELECTRICAL CONNECTIONS. PERMANENT CONNECTIONS SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING PAVEMENT SHALL BE REMOVED IN FULL PANELS UNLESS OTHERWISE NOTED ON DRAWINGS. DOUBLE SAW CUTTING WILL BE REQUIRED ADJACENT TO PAVEMENT TO REMAIN. IF THE EDGES OF EXISTING PANELS ARE DAMAGED DURING CONSTRUCTION, THOSE PANELS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL USE CAUTION WHILE INSTALLING FENCE NOT TO DAMAGE UNDERGROUND UTILITIES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL PAVEMENT REMOVAL AND SITE DISTURBANCE LIMITS REQUIRED FOR UNDERGROUND CONSTRUCTION ACTIVITIES AND ACCOUNT FOR THOSE IN THE BID PRICE. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR PAVEMENT REMOVAL, SITE DISTURBANCE OR RESTORATION IN ADDITION TO WHAT IS SHOWN IN THE DRAWINGS. THE LIMITS OF ROADWAY AND SIDEWALK REMOVAL SHOWN ARE A MINIMUM.
- ALL CONSTRUCTION AND TREE PROTECTION FENCE SHALL BE INSTALLED AND APPROVED BY OWNER PRIOR TO START OF SITE CONSTRUCTION ACTIVITIES.
- ALL ITEMS SHOWN TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED ENTIRELY BY THE CONTRACTOR AND DISPOSED OF LEGALLY OFF SITE UNLESS OTHERWISE NOTED.
- PROTECT EXISTING UNDERGROUND STRUCTURES FROM HEAVY LOADS AND DAMAGE AT ALL TIMES.

LEGEND

- | | | | |
|--|--|--|-------------------------------------|
| | EXISTING PAVEMENT TO BE REMOVED | | REMOVE TREE |
| | EXISTING BUILDING FOR DEMOLITION (SEE ARCHITECTURAL) | | REMOVE UTILITY STRUCTURE/FIXTURE |
| | | | REMOVE UTILITY |
| | | | ORANGE CONSTRUCTION FENCE |
| | | | CHAIN LINK FENCE WITH PRIVACY SLATS |

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Drawing Title

SITE PREPARATION AND
DEMOLITION PLAN

Approved: Division Chief

Approved: Service Director

Project Title

RENOVATE AND EXPAND
SPACE FOR PATIENT
SUPPORT AREAS

Building Number

2

Checked

ALW

Drawn

EJM

Location

IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

Date 12-17-2012
CONSTRUCTION
DOCUMENTS

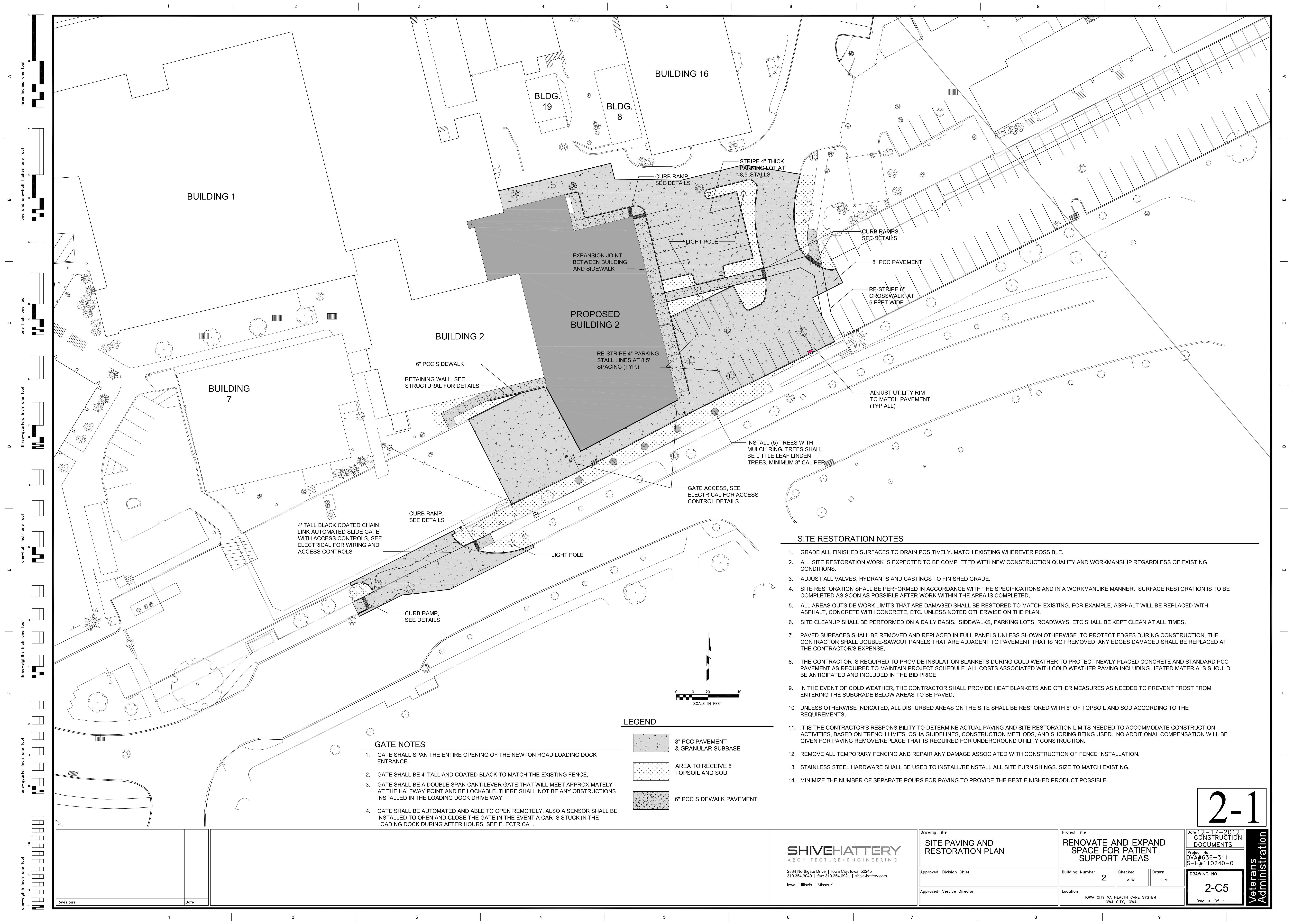
Project No.
DVA#636-311
S-H#110240-0

DRAWING NO.

2-C2

Dwg. 2 Of 7

Veterans
Administration



GATE NOTES

- 1. GATE SHALL SPAN THE ENTIRE OPENING OF THE NEWTON ROAD LOADING DOCK ENTRANCE.
- 2. GATE SHALL BE 4' TALL AND COATED BLACK TO MATCH THE EXISTING FENCE.
- 3. GATE SHALL BE A DOUBLE SPAN CANTILEVER GATE THAT WILL MEET APPROXIMATELY AT THE HALFWAY POINT AND BE LOCKABLE. THERE SHALL NOT BE ANY OBSTRUCTIONS INSTALLED IN THE LOADING DOCK DRIVE WAY.
- 4. GATE SHALL BE AUTOMATED AND ABLE TO OPEN REMOTELY. ALSO A SENSOR SHALL BE INSTALLED TO OPEN AND CLOSE THE GATE IN THE EVENT A CAR IS STUCK IN THE LOADING DOCK DURING AFTER HOURS. SEE ELECTRICAL.

LEGEND

- 8" PCC PAVEMENT & GRANULAR SUBBASE
- AREA TO RECEIVE 6" TOPSOIL AND SOD
- 6" PCC SIDEWALK PAVEMENT

SITE RESTORATION NOTES

- 1. GRADE ALL FINISHED SURFACES TO DRAIN POSITIVELY. MATCH EXISTING WHEREVER POSSIBLE.
- 2. ALL SITE RESTORATION WORK IS EXPECTED TO BE COMPLETED WITH NEW CONSTRUCTION QUALITY AND WORKMANSHIP REGARDLESS OF EXISTING CONDITIONS.
- 3. ADJUST ALL VALVES, HYDRANTS AND CASTINGS TO FINISHED GRADE.
- 4. SITE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN A WORKMANLIKE MANNER. SURFACE RESTORATION IS TO BE COMPLETED AS SOON AS POSSIBLE AFTER WORK WITHIN THE AREA IS COMPLETED.
- 5. ALL AREAS OUTSIDE WORK LIMITS THAT ARE DAMAGED SHALL BE RESTORED TO MATCH EXISTING. FOR EXAMPLE, ASPHALT WILL BE REPLACED WITH ASPHALT, CONCRETE WITH CONCRETE, ETC. UNLESS NOTED OTHERWISE ON THE PLAN.
- 6. SITE CLEANUP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC SHALL BE KEPT CLEAN AT ALL TIMES.
- 7. PAVED SURFACES SHALL BE REMOVED AND REPLACED IN FULL PANELS UNLESS SHOWN OTHERWISE. TO PROTECT EDGES DURING CONSTRUCTION, THE CONTRACTOR SHALL DOUBLE-SAWCUT PANELS THAT ARE ADJACENT TO PAVEMENT THAT IS NOT REMOVED. ANY EDGES DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR IS REQUIRED TO PROVIDE INSULATION BLANKETS DURING COLD WEATHER TO PROTECT NEWLY PLACED CONCRETE AND STANDARD PCC PAVEMENT AS REQUIRED TO MAINTAIN PROJECT SCHEDULE. ALL COSTS ASSOCIATED WITH COLD WEATHER PAVING INCLUDING HEATED MATERIALS SHOULD BE ANTICIPATED AND INCLUDED IN THE BID PRICE.
- 9. IN THE EVENT OF COLD WEATHER, THE CONTRACTOR SHALL PROVIDE HEAT BLANKETS AND OTHER MEASURES AS NEEDED TO PREVENT FROST FROM ENTERING THE SUBGRADE BELOW AREAS TO BE PAVED.
- 10. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS ON THE SITE SHALL BE RESTORED WITH 6" OF TOPSOIL AND SOD ACCORDING TO THE REQUIREMENTS.
- 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL PAVING AND SITE RESTORATION LIMITS NEEDED TO ACCOMMODATE CONSTRUCTION ACTIVITIES, BASED ON TRENCH LIMITS, OSHA GUIDELINES, CONSTRUCTION METHODS, AND SHORING BEING USED. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR PAVING REMOVE/REPLACE THAT IS REQUIRED FOR UNDERGROUND UTILITY CONSTRUCTION.
- 12. REMOVE ALL TEMPORARY FENCING AND REPAIR ANY DAMAGE ASSOCIATED WITH CONSTRUCTION OF FENCE INSTALLATION.
- 13. STAINLESS STEEL HARDWARE SHALL BE USED TO INSTALL/REINSTALL ALL SITE FURNISHINGS. SIZE TO MATCH EXISTING.
- 14. MINIMIZE THE NUMBER OF SEPARATE POURS FOR PAVING TO PROVIDE THE BEST FINISHED PRODUCT POSSIBLE.

Revisions

Date

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Drawing Title

SITE PAVING AND RESTORATION PLAN

Approved: Division Chief

Approved: Service Director

Project Title

RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS

Building Number

2

Checked

ALW

Drawn

EJM

Location

IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

Date

12-17-2012

CONSTRUCTION DOCUMENTS

Project No.

DVA#636-311

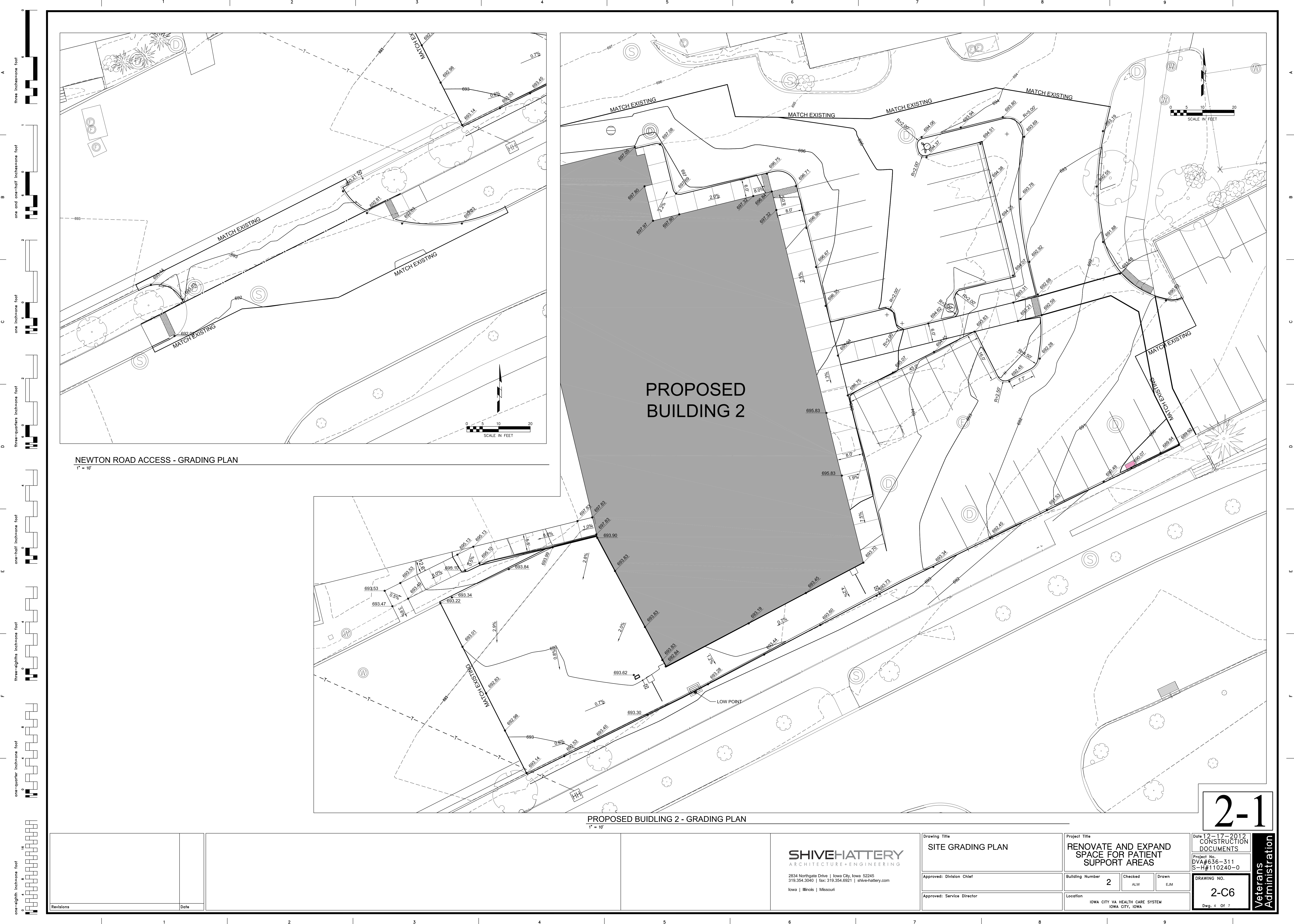
S-H#110240-0

DRAWING NO.

2-C5

Dwg. 3 Of 7

Veterans Administration

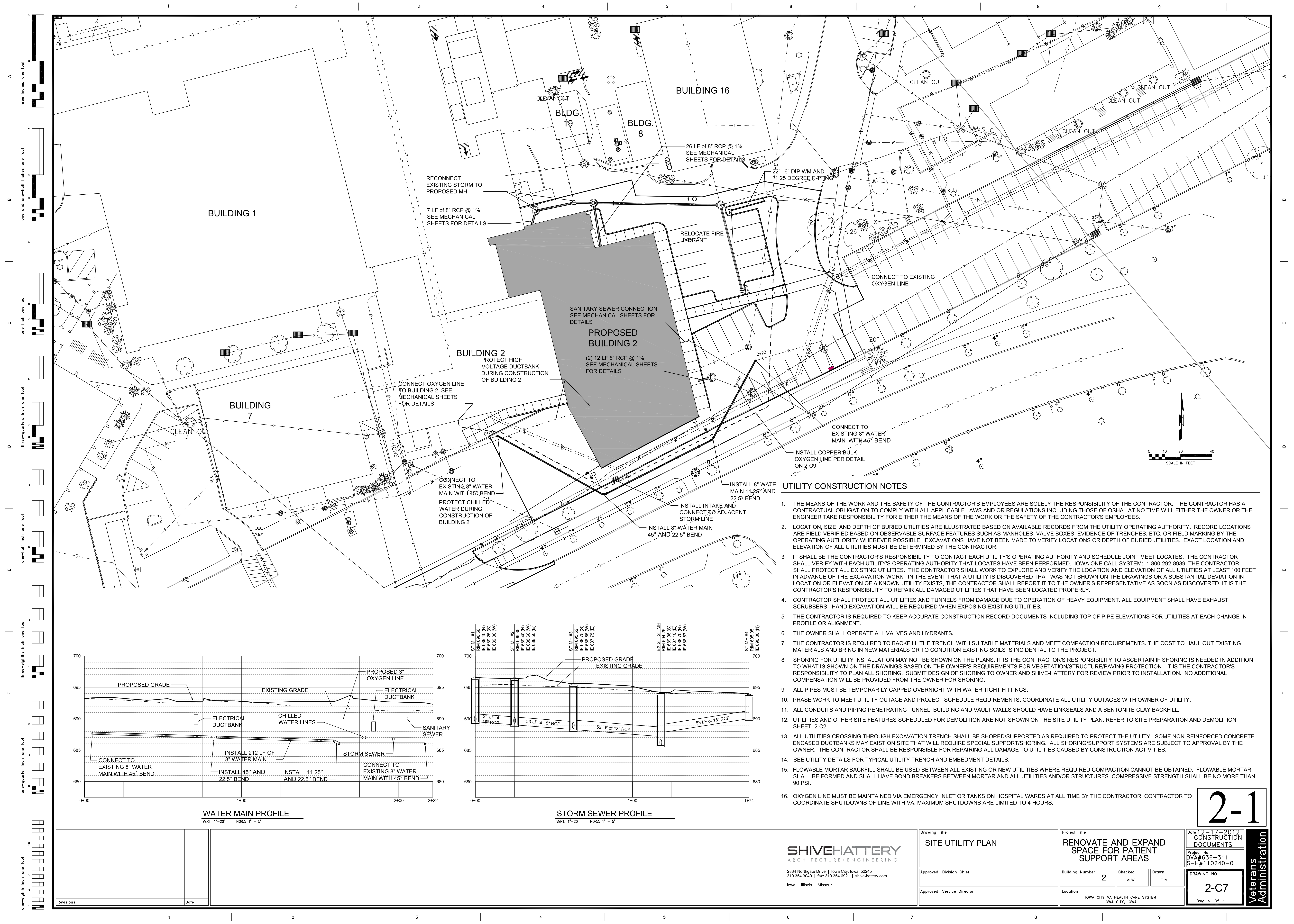


NEWTON ROAD ACCESS - GRADING PLAN
1" = 10'

PROPOSED BUILDING 2 - GRADING PLAN
1" = 10'

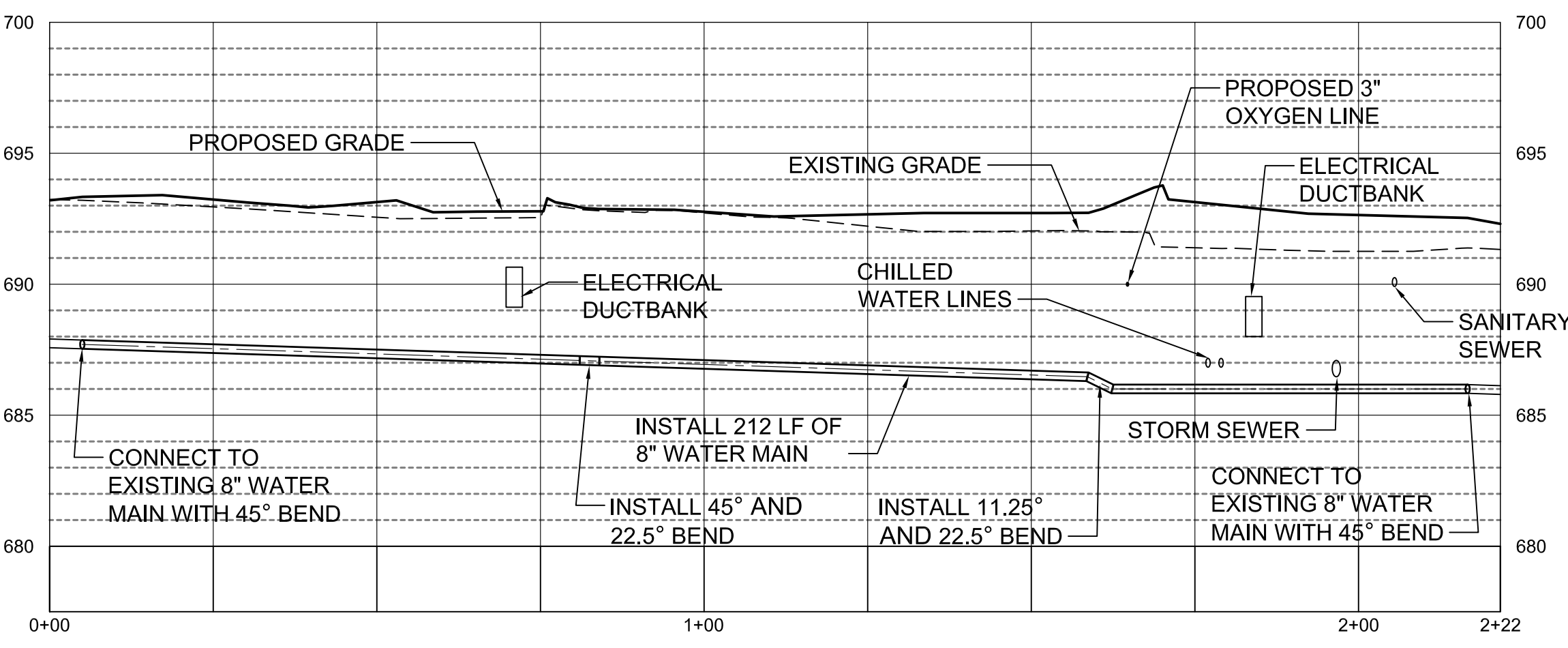
Revisions	Date		2834 Northgate Drive Iowa City, Iowa 52245 319.354.3040 fax: 319.354.6921 shive-hattery.com Iowa Illinois Missouri	Drawing Title SITE GRADING PLAN		Project Title RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS		Date: 12-17-2012 CONSTRUCTION DOCUMENTS	
				Approved: Division Chief		Building Number 2	Checked ALW	Drawn EJM	Project No. DVA#636-311 S-H#110240-0
				Approved: Service Director		Location IOWA CITY VA HEALTH CARE SYSTEM IOWA CITY, IOWA		DRAWING NO. 2-C6 Dwg. 4 Of 7	

Veterans Administration

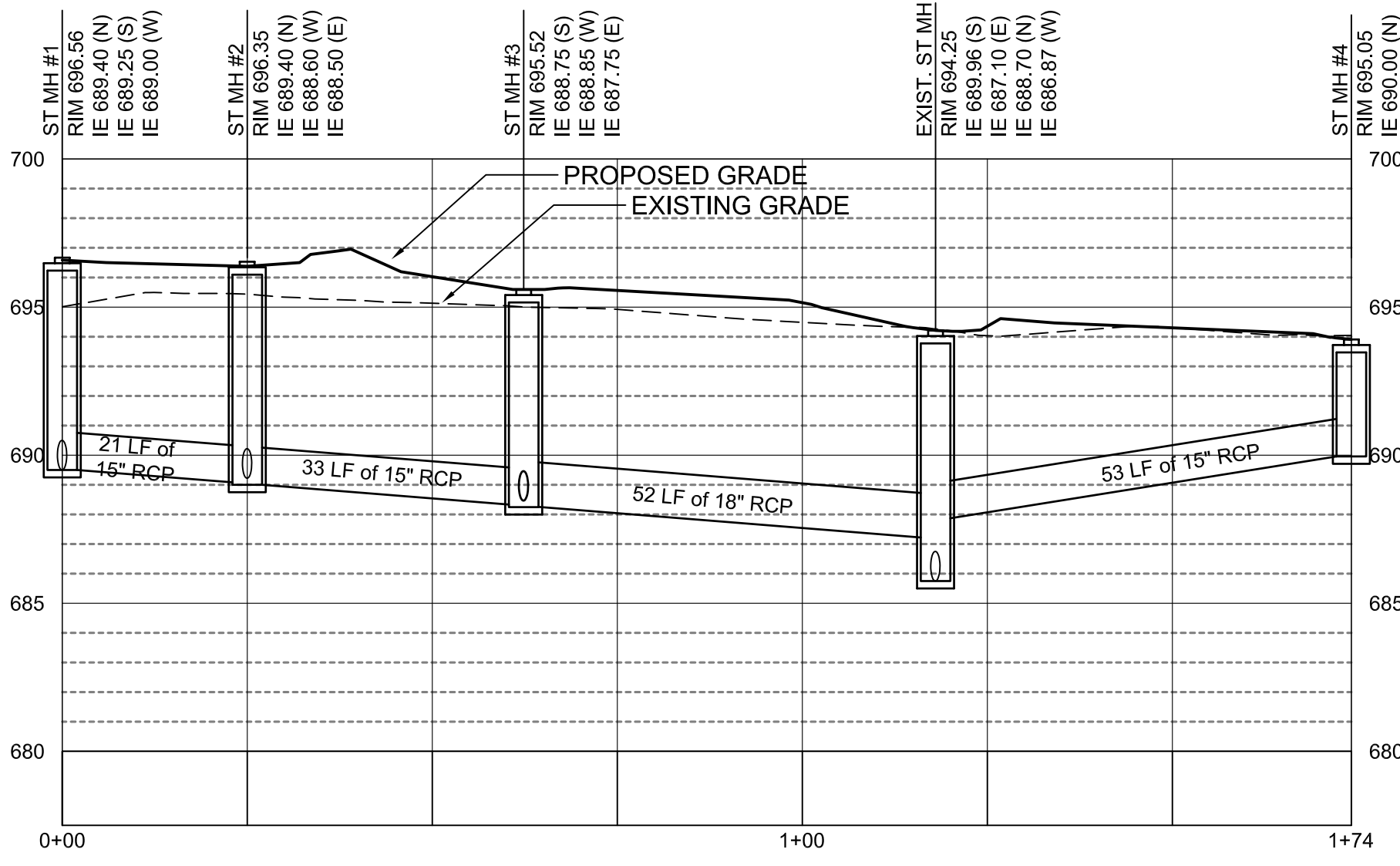


UTILITY CONSTRUCTION NOTES

1. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR HAS A CONTRACTUAL OBLIGATION TO COMPLY WITH ALL APPLICABLE LAWS AND OR REGULATIONS INCLUDING THOSE OF OSHA. AT NO TIME WILL EITHER THE OWNER OR THE ENGINEER TAKE RESPONSIBILITY FOR EITHER THE MEANS OF THE WORK OR THE SAFETY OF THE CONTRACTOR'S EMPLOYEES.
2. LOCATION, SIZE, AND DEPTH OF BURIED UTILITIES ARE ILLUSTRATED BASED ON AVAILABLE RECORDS FROM THE UTILITY OPERATING AUTHORITY. RECORD LOCATIONS ARE FIELD VERIFIED BASED ON OBSERVABLE SURFACE FEATURES SUCH AS MANHOLES, VALVE BOXES, EVIDENCE OF TRENCHES, ETC. OR FIELD MARKING BY THE OPERATING AUTHORITY WHEREVER POSSIBLE. EXCAVATIONS HAVE NOT BEEN MADE TO VERIFY LOCATIONS OR DEPTH OF BURIED UTILITIES. EXACT LOCATION AND ELEVATION OF ALL UTILITIES MUST BE DETERMINED BY THE CONTRACTOR.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT EACH UTILITY'S OPERATING AUTHORITY AND SCHEDULE JOINT MEET LOCATES. THE CONTRACTOR SHALL VERIFY WITH EACH UTILITY'S OPERATING AUTHORITY THAT LOCATES HAVE BEEN PERFORMED. IOWA ONE CALL SYSTEM: 1-800-292-8989. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL WORK TO EXPLORE AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES AT LEAST 100 FEET IN ADVANCE OF THE EXCAVATION WORK. IN THE EVENT THAT A UTILITY IS DISCOVERED THAT WAS NOT SHOWN ON THE DRAWINGS OR A SUBSTANTIAL DEVIATION IN LOCATION OR ELEVATION OF A KNOWN UTILITY EXISTS, THE CONTRACTOR SHALL REPORT IT TO THE OWNER'S REPRESENTATIVE AS SOON AS DISCOVERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DAMAGED UTILITIES THAT HAVE BEEN LOCATED PROPERLY.
4. CONTRACTOR SHALL PROTECT ALL UTILITIES AND TUNNELS FROM DAMAGE DUE TO OPERATION OF HEAVY EQUIPMENT. ALL EQUIPMENT SHALL HAVE EXHAUST SCRUBBERS. HAND EXCAVATION WILL BE REQUIRED WHEN EXPOSING EXISTING UTILITIES.
5. THE CONTRACTOR IS REQUIRED TO KEEP ACCURATE CONSTRUCTION RECORD DOCUMENTS INCLUDING TOP OF PIPE ELEVATIONS FOR UTILITIES AT EACH CHANGE IN PROFILE OR ALIGNMENT.
6. THE OWNER SHALL OPERATE ALL VALVES AND HYDRANTS.
7. THE CONTRACTOR IS REQUIRED TO BACKFILL THE TRENCH WITH SUITABLE MATERIALS AND MEET COMPACTION REQUIREMENTS. THE COST TO HAUL OUT EXISTING MATERIALS AND BRING IN NEW MATERIALS OR TO CONDITION EXISTING SOILS IS INCIDENTAL TO THE PROJECT.
8. SHORING FOR UTILITY INSTALLATION MAY NOT BE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN IF SHORING IS NEEDED IN ADDITION TO WHAT IS SHOWN ON THE DRAWINGS BASED ON THE OWNER'S REQUIREMENTS FOR VEGETATION/STRUCTURE/PAVING PROTECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLAN ALL SHORING. SUBMIT DESIGN OF SHORING TO OWNER AND SHIVE-HATTERY FOR REVIEW PRIOR TO INSTALLATION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FROM THE OWNER FOR SHORING.
9. ALL PIPES MUST BE TEMPORARILY CAPPED OVERNIGHT WITH WATER TIGHT FITTINGS.
10. PHASE WORK TO MEET UTILITY OUTAGE AND PROJECT SCHEDULE REQUIREMENTS. COORDINATE ALL UTILITY OUTAGES WITH OWNER OF UTILITY.
11. ALL CONDUITS AND PIPING PENETRATING TUNNEL, BUILDING AND VAULT WALLS SHOULD HAVE LINKSEALS AND A BENTONITE CLAY BACKFILL.
12. UTILITIES AND OTHER SITE FEATURES SCHEDULED FOR DEMOLITION ARE NOT SHOWN ON THE SITE UTILITY PLAN. REFER TO SITE PREPARATION AND DEMOLITION SHEET, 2-C2.
13. ALL UTILITIES CROSSING THROUGH EXCAVATION TRENCH SHALL BE SHORED/SUPPORTED AS REQUIRED TO PROTECT THE UTILITY. SOME NON-REINFORCED CONCRETE ENCASED DUCTBANKS MAY EXIST ON SITE THAT WILL REQUIRE SPECIAL SUPPORT/SHORING. ALL SHORING/SUPPORT SYSTEMS ARE SUBJECT TO APPROVAL BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
14. SEE UTILITY DETAILS FOR TYPICAL UTILITY TRENCH AND EMBEDMENT DETAILS.
15. FLOWABLE MORTAR BACKFILL SHALL BE USED BETWEEN ALL EXISTING OR NEW UTILITIES WHERE REQUIRED COMPACTION CANNOT BE OBTAINED. FLOWABLE MORTAR SHALL BE FORMED AND SHALL HAVE BOND BREAKERS BETWEEN MORTAR AND ALL UTILITIES AND/OR STRUCTURES. COMPRESSIVE STRENGTH SHALL BE NO MORE THAN 90 PSI.
16. OXYGEN LINE MUST BE MAINTAINED VIA EMERGENCY INLET OR TANKS ON HOSPITAL WARDS AT ALL TIME BY THE CONTRACTOR. CONTRACTOR TO COORDINATE SHUTDOWNS OF LINE WITH VA. MAXIMUM SHUTDOWNS ARE LIMITED TO 4 HOURS.



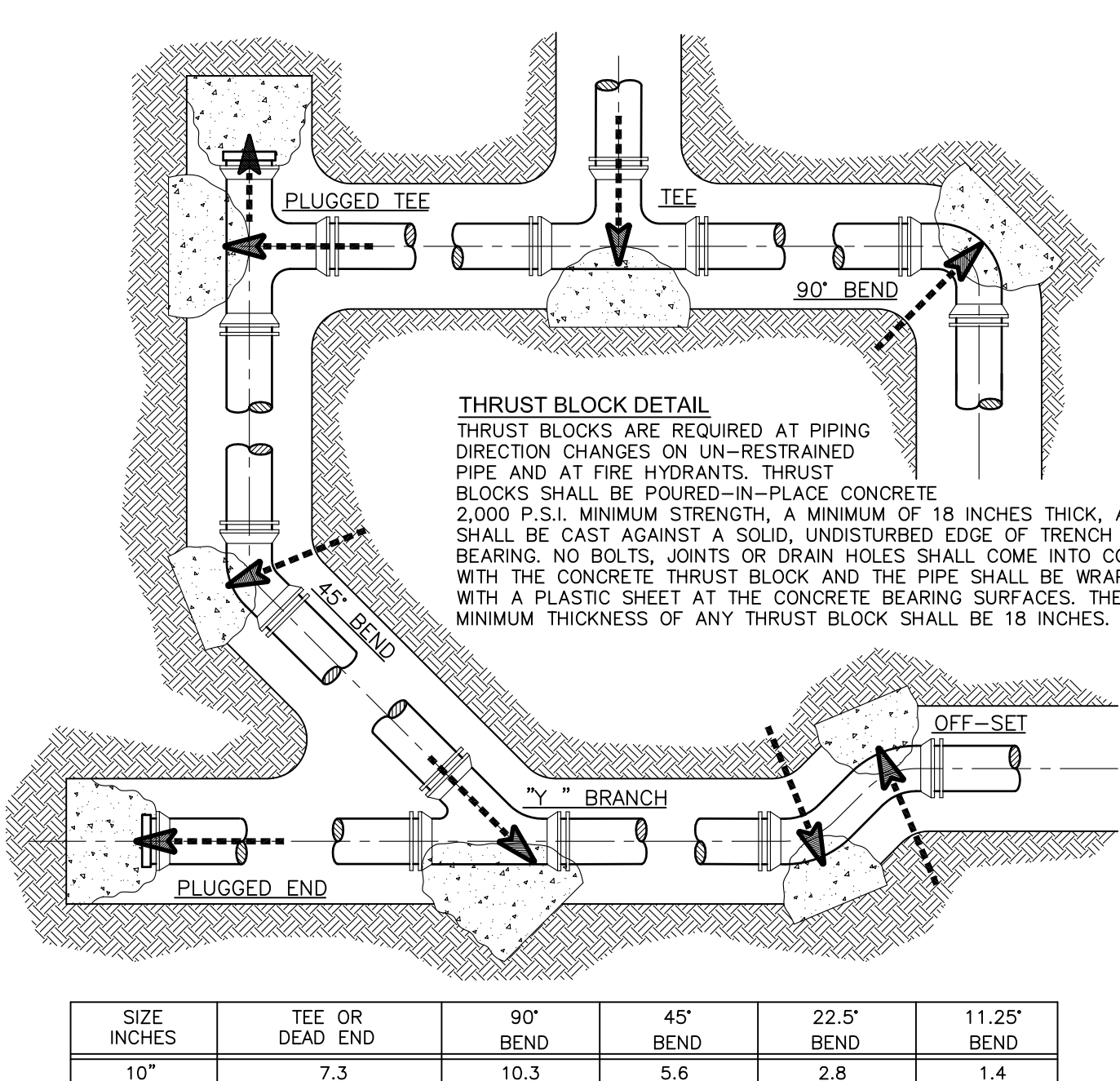
WATER MAIN PROFILE
VERT: 1"=20' HORIZ: 1"= 5'



STORM SEWER PROFILE
VERT: 1"=20' HORIZ: 1"= 5'

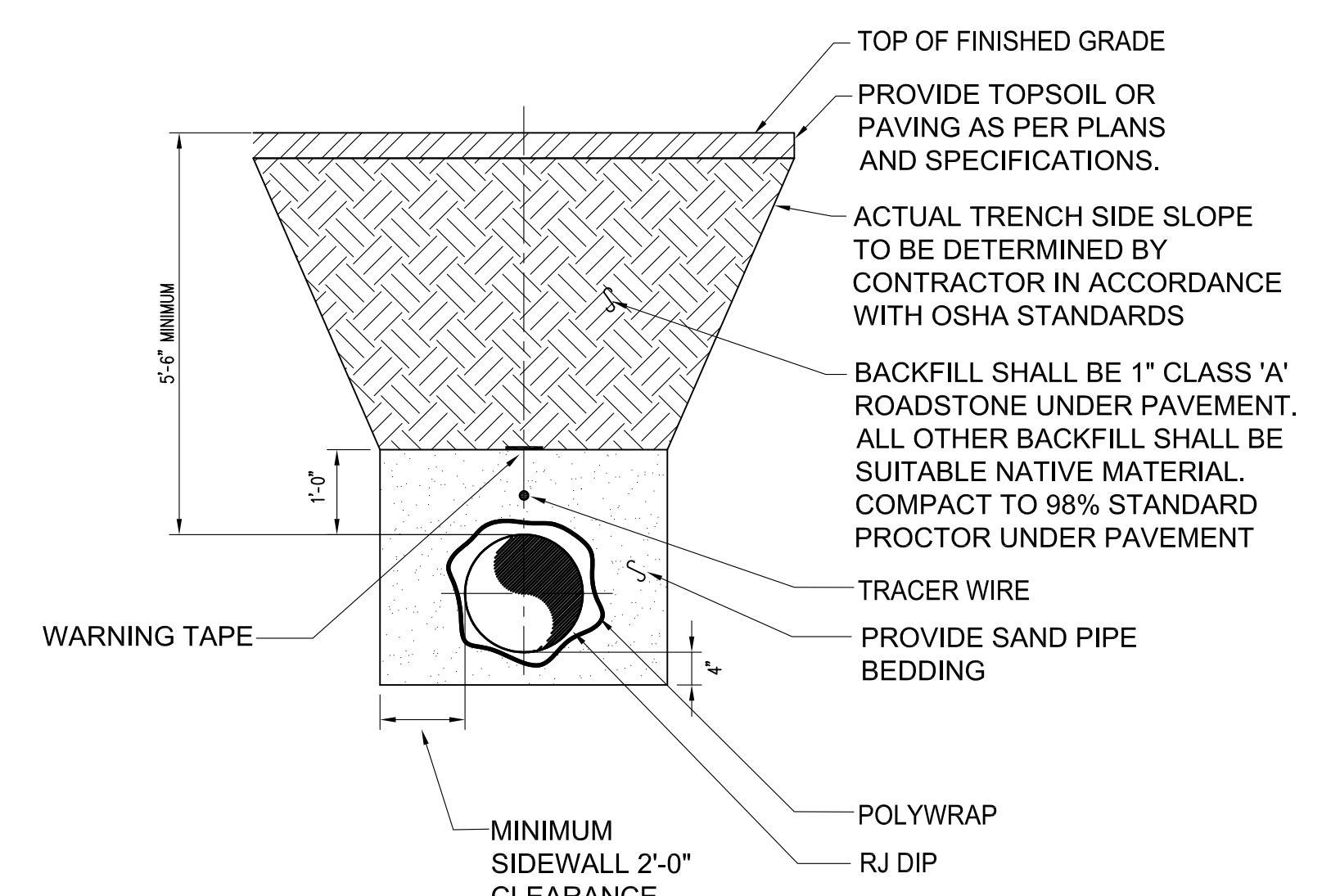
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Drawing Title SITE UTILITY PLAN		Project Title RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS		Date: 12-17-2012 CONSTRUCTION DOCUMENTS	
Approved: Division Chief		Building Number 2	Checked ALW	Drawn EJM	Project No. DVA#636-311 S-H#110240-0
Approved: Service Director		Location IOWA CITY VA HEALTH CARE SYSTEM IOWA CITY, IOWA			DRAWING NO. 2-C7 Dwg. 5 of 7

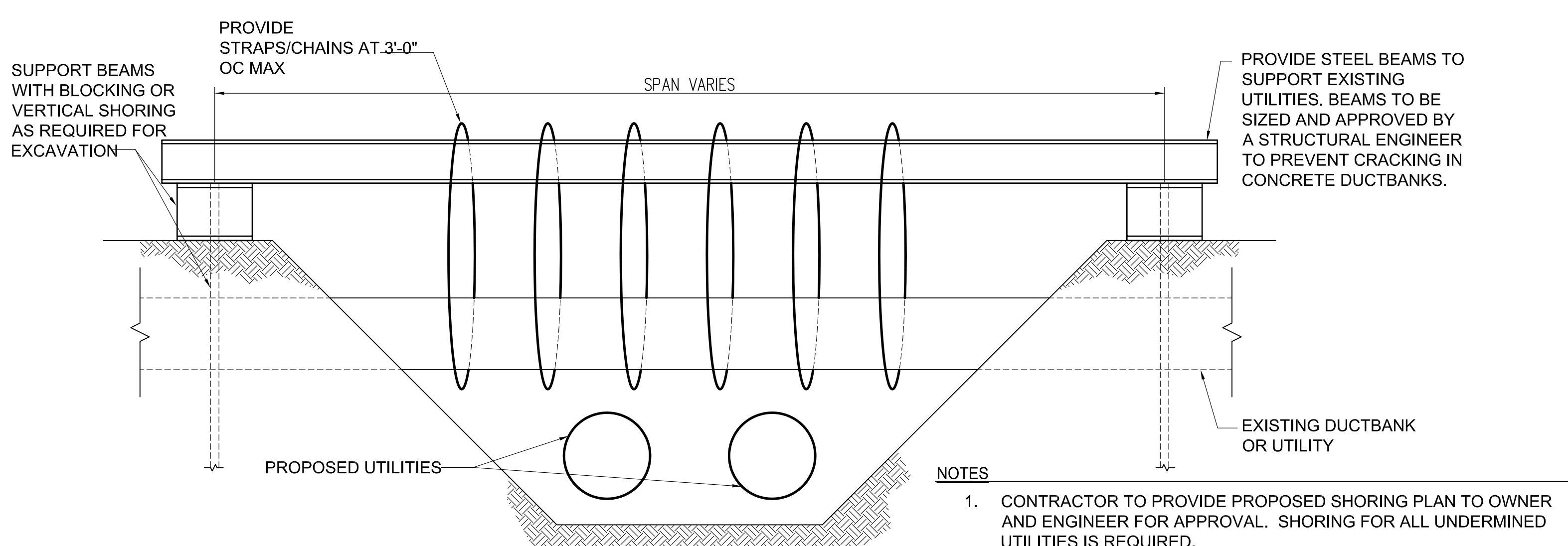


THE ABOVE AREAS ARE BASED UPON A SOIL BEARING CAPACITY OF 2000 PSF OF UNDISTURBED SOIL. IF ACTUAL SOIL BEARING STRENGTH IS LESS THAN 2000 PSF, THE THRUST BEARING AREA SHALL BE INCREASED BASED ON THE ACTUAL SOIL BEARING STRENGTH.

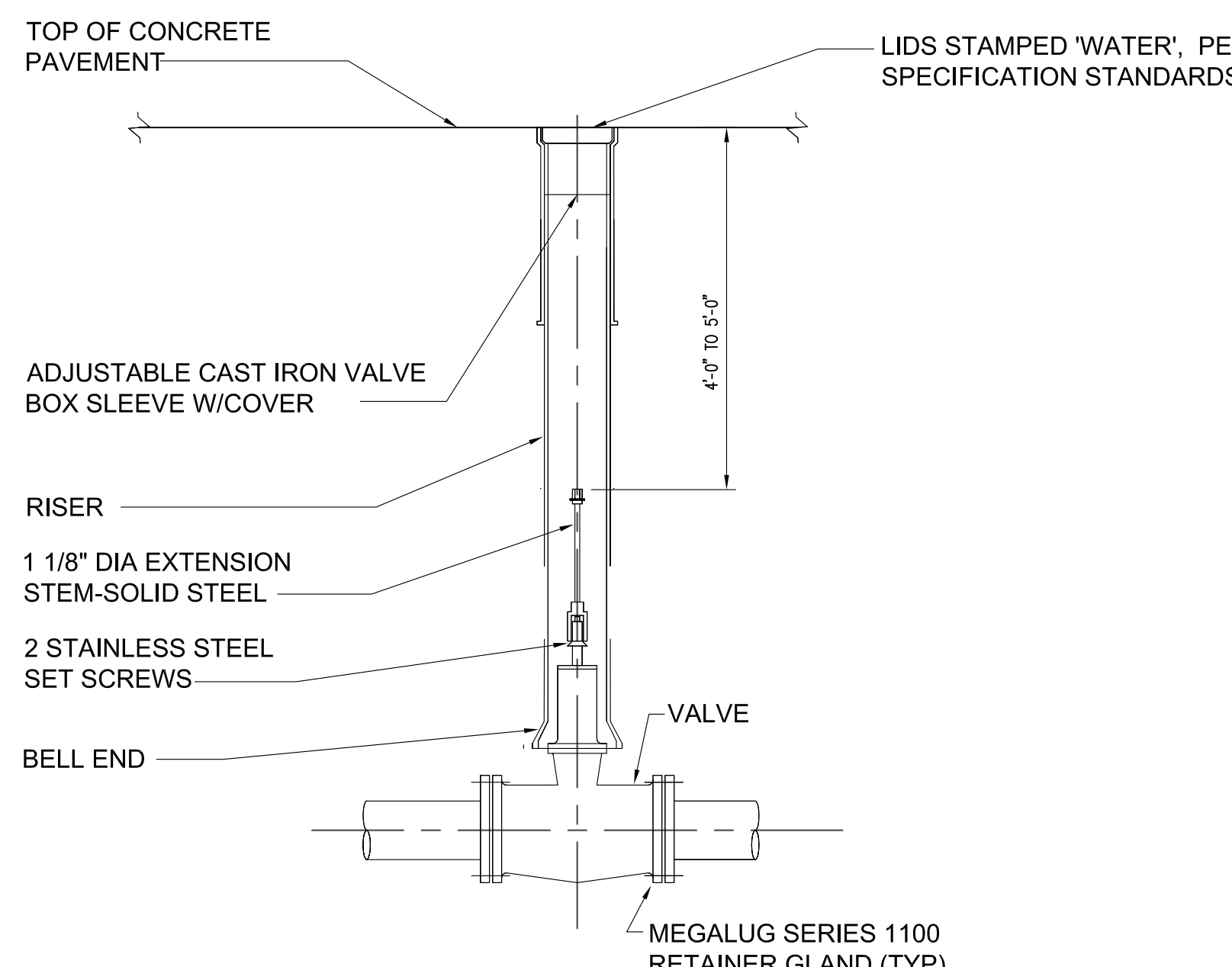
1 THRUST BLOCK BEARING AREA (IN SQUARE FEET)
NOT TO SCALE



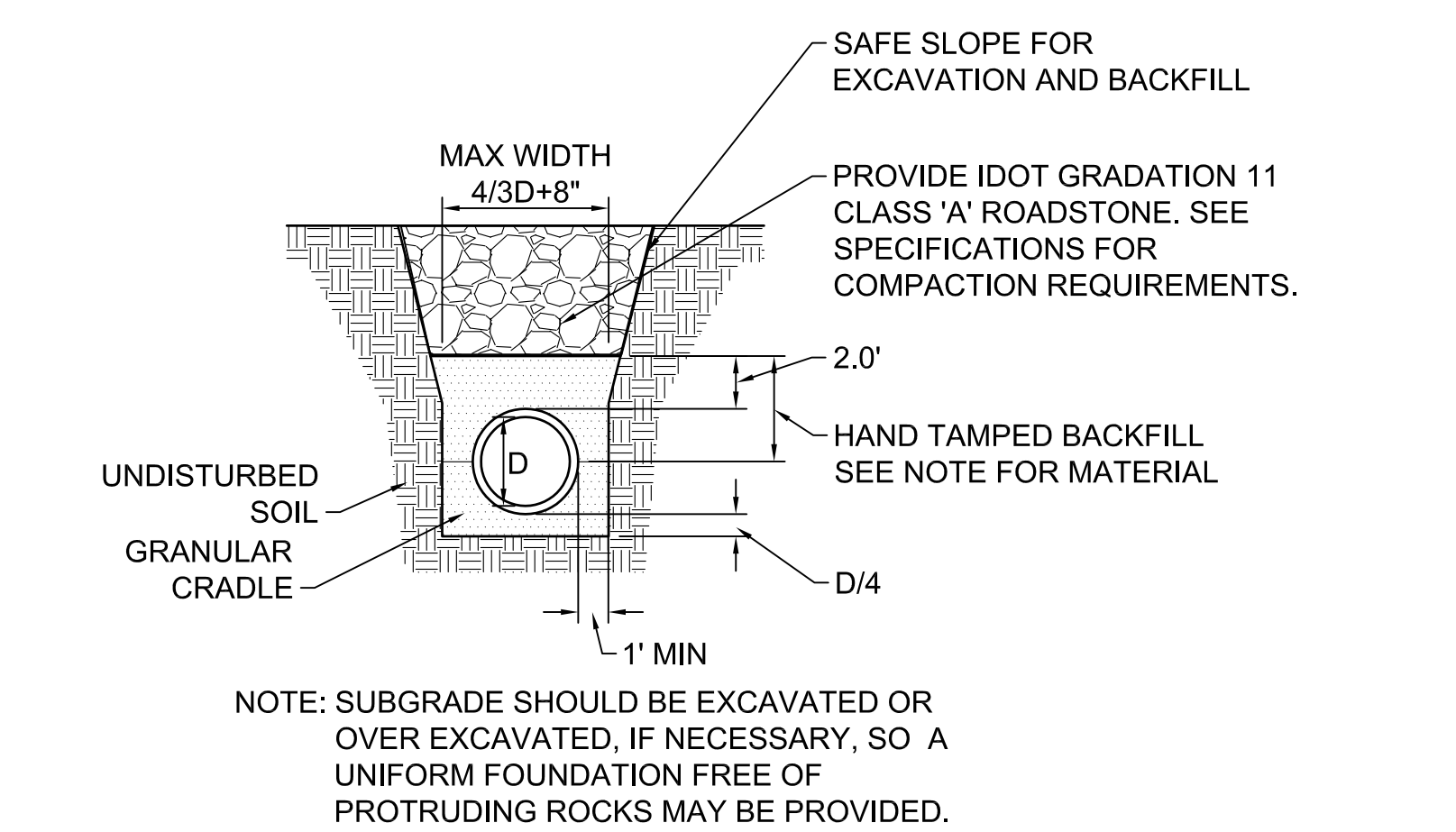
2 TYPICAL WATER PIPE EMBEDMENT AND INSTALLATION DETAIL
NOT TO SCALE



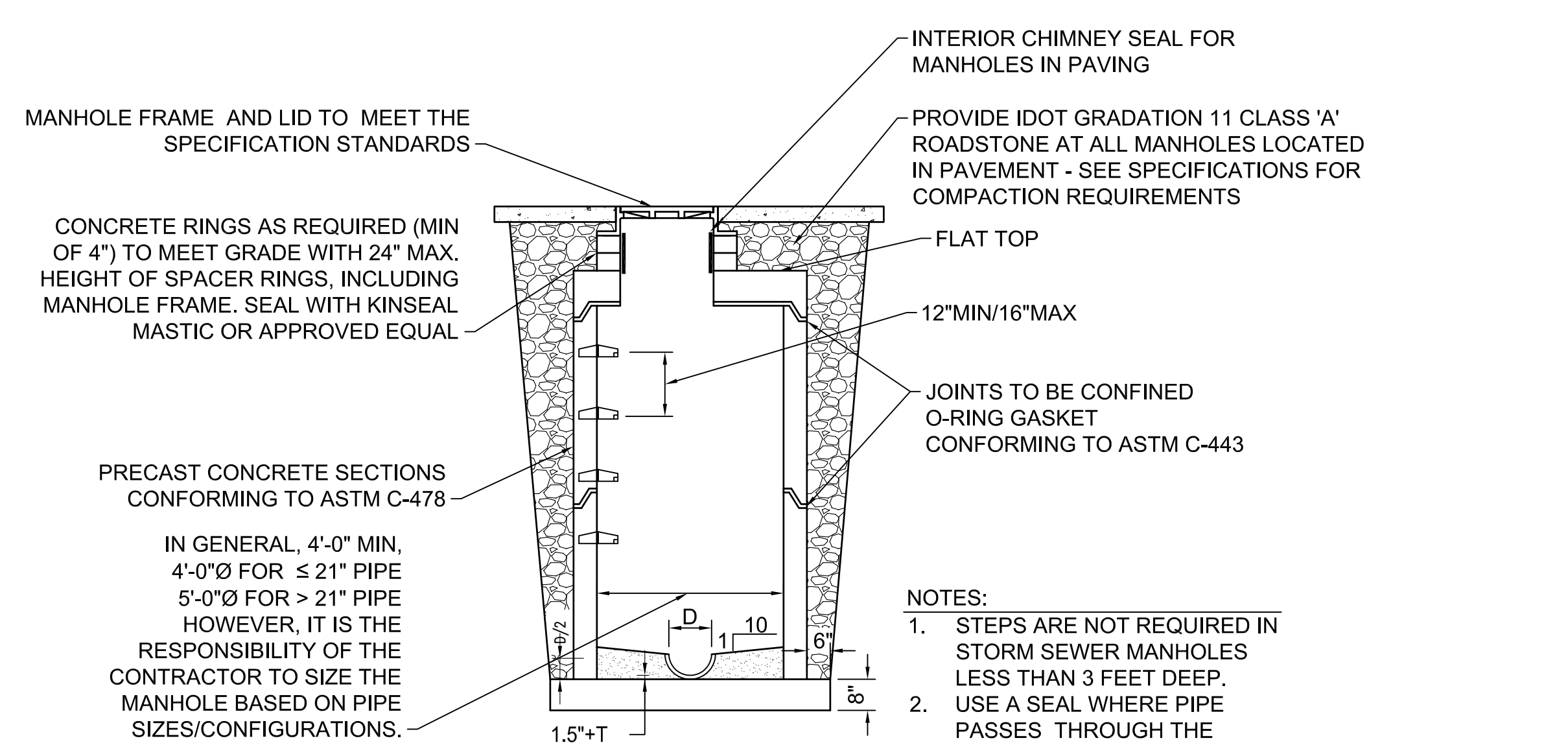
3 SCHEMATIC SHORING OF EXISTING UTILITIES
NOT TO SCALE



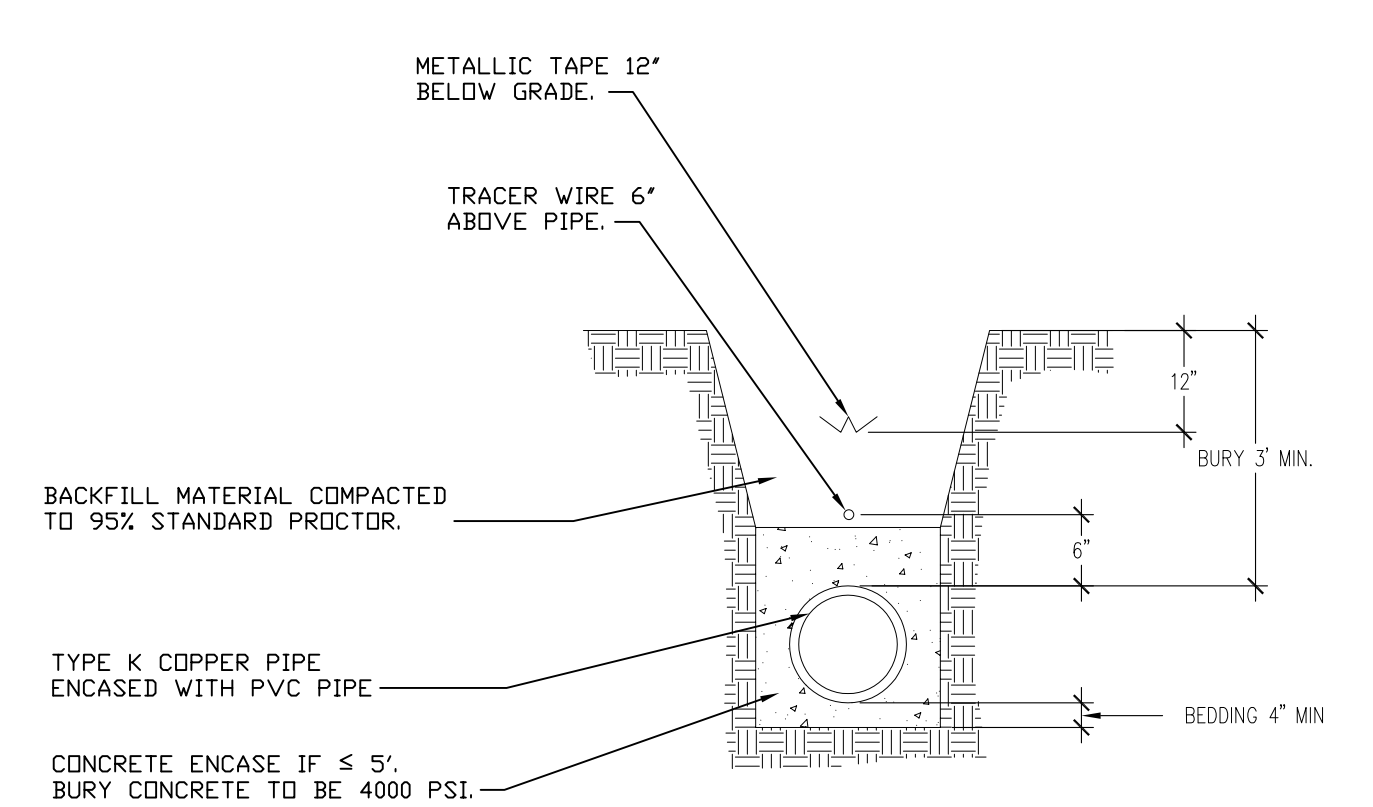
4 VALVE BOX SETTING DETAIL
NOT TO SCALE



5 PIPE EXCAVATION & BEDDING STORM SEWER PIPE TRENCH
NOT TO SCALE



6 TYPICAL STORM MANHOLE ≤ 6'-0" IN DEPTH
NOT TO SCALE



7 BURIED OXYGEN PIPING DETAIL
NOT TO SCALE

